

Adding Mixed Numbers

Just as you can add whole numbers and add fractions, you can add mixed numbers. To add mixed numbers:

1. Add the whole numbers.
2. Add the fractions.
3. Put the two parts together.

If the sum of the fractions is an improper fraction, you may need to rewrite it as a mixed number and add the whole number parts together.

— Example —

Add $1\frac{1}{2} + 3\frac{5}{6}$. Write the sum as a whole or mixed number in lowest terms.

Rewrite the fractions using their LCD 6.

$$\begin{array}{r} 1\frac{1}{2} \rightarrow 1\frac{3}{6} \\ + 3\frac{5}{6} \rightarrow + 3\frac{5}{6} \end{array}$$

Add the whole numbers. Then add the fractions.

Rewrite the improper fraction as a mixed number.

$$\begin{array}{r} 4\frac{8}{6} \\ 4 + 1\frac{2}{6} \end{array}$$

Add the whole number parts. Write the sum in lowest terms.

$$5\frac{2}{6} = 5\frac{1}{3}$$

$$\text{So, } 1\frac{1}{2} + 3\frac{5}{6} = 5\frac{1}{3}.$$

Try It Add. Write each sum as a whole or mixed number in lowest terms.

- a. $8\frac{1}{5} + 12\frac{3}{5}$ The fractions have like denominators.

Add the whole numbers. _____ Add the fractions. _____

Add the two parts. _____

- b. $12\frac{3}{4} + 3\frac{1}{2}$ Rewrite using the LCD. _____

Add the whole numbers. _____ Add the fractions. _____

Rewrite as mixed number. _____

Add the whole number parts. Write the sum in lowest terms. _____

c. $4\frac{7}{8} + 2\frac{3}{4}$ _____

d. $5\frac{2}{3} + 7\frac{1}{12}$ _____

e. $1\frac{1}{2} + 1\frac{1}{2}$ _____

f. $2\frac{2}{5} + 3\frac{2}{5}$ _____

g. $4\frac{1}{6} + 2\frac{2}{3}$ _____

h. $3\frac{5}{8} + 5\frac{3}{4}$ _____

i. $6\frac{1}{4} + 7\frac{5}{6}$ _____

j. $9\frac{2}{9} + 7\frac{2}{3}$ _____